Journal of Nuclear Materials 190 (1992) 343–344
North-Holland

journal of nuclear materials

Author index

Amaya, T., see Van Iseghem, P. 190 (1992) 269
Atkins, M., see Bennett, D.G. 190 (1992) 315

Ball, C.J., G.J. Thorogood and E.R. Vance, Thermal expansion coefficients of zirconolite ($CaZrTi_2O_7$) and perovskite ($CaTiO_3$) from X-ray powder diffraction analysis 190 (1992) 298
Ball, C.J., see Vance, E.R. 190 (1992) 295
Bates, J.K., see Wronkiewicz, D.J. 190 (1992) 107
Bates, J.K., W.L. Ebert, X. Feng and W.L. Bourcier, Issues affecting the prediction of glass reactivity in an unsaturated environment 190 (1992) 198
Bates, J.K., see Mazer, J.J. 190 (1992) 277
Bennett, D.G., D. Read, M. Atkins and F.P. Glasser, A thermodynamic model for blended cements. II: Cement hydrate phases; thermodynamic values and modelling studies 190 (1992) 315
Betteridge, J.S., see Hocking, W.H. 190 (1992) 36
Blackford, M.G., see Smith, K.L. 190 (1992) 287
Bourcier, W.L., see Bates, J.K. 190 (1992) 198
Bradley, C.R., see Mazer, J.J. 190 (1992) 277
Bruno, J., I. Casas and A. Sandino, Static and dynamic SIMFUEL dissolution studies under oxic conditions 190 (1992) 61
Buchanan, H.C., see Einziger, R.E. 190 (1992) 53

Casas, I., see Bruno, J. 190 (1992) 61
Cassidy, D.J., see Vance, E.R. 190 (1992) 295
Chevallier, O., see Delage, F. 190 (1992) 191
Christensen, H., see Sunder, S. 190 (1992) 78

Day, R.A., see Smith, K.L. 190 (1992) 287
Delage, F., D. Ghaleb, J.L. Dussossoy, O. Chevallier and E. Vernaz, A mechanistic model for understanding nuclear waste glass dissolution 190 (1992) 191
Della Mea, G., see Trotignon, L. 190 (1992) 228
Dran, J.-C., see Trotignon, L. 190 (1992) 228
Dussossoy, J.L., see Delage, F. 190 (1992) 191

Ebert, W.L., see Bates, J.K. 190 (1992) 198
Einziger, R.E., L.E. Thomas, H.C. Buchanan and R.B. Stout, Oxidation of spent fuel in air at 175 to 195°C 190 (1992) 53
Ewing, R.C., see Janeczek, J. 190 (1992) 128
Ewing, R.C., see Finch, R.J. 190 (1992) 133
Ewing, R.C., see Janeczek, J. 190 (1992) 157
Ewing, R.C., see Isobe, H. 190 (1992) 174

Feng, X., see Bates, J.K. 190 (1992) 198
Finch, R.J. and R.C. Ewing, The corrosion of uraninite under oxidizing conditions 190 (1992) 133
Forsyth, R.S. and L.O. Werme, Spent fuel corrosion and dissolution 190 (1992) 3

Gerding, T.J., see Wronkiewicz, D.J. 190 (1992) 107
Ghaleb, D., see Delage, F. 190 (1992) 191
Glasser, F.P., see Bennett, D.G. 190 (1992) 315
Gray, W.J., H.R. Leider and S.A. Steward, Parametric study of LWR spent fuel dissolution kinetics 190 (1992) 46

Hart, K.P., see Smith, K.L. 190 (1992) 287
Hocking, W.H., D.W. Shoesmith and J.S. Betteridge, Reactivity effects in the oxidative dissolution of UO_2 nuclear fuel 190 (1992) 36

Isobe, H., T. Murakami and R.C. Ewing, Alteration of uranium minerals in the Koongarra deposit, Australia: Unweathered zone 190 (1992) 174

Janeczek, J. and R.C. Ewing, Structural formula of uraninite 190 (1992) 128
Janeczek, J. and R.C. Ewing, Dissolution and alteration of uraninite under reducing conditions 190 (1992) 157

Leider, H.R., see Gray, W.J. 190 (1992) 46
Lumpkin, G.R., see Smith, K.L. 190 (1992) 287
Lumpkin, G.R., Analytical electron microscopy of columbite: A niobium–tantalum oxide mineral with zonal uranium distribution 190 (1992) 302

Matzke, Hj., Radiation damage-enhanced dissolution of UO_2 in water 190 (1992) 101
Mazer, J.J., J.K. Bates, C.R. Bradley and C.M. Stevenson, Water diffusion in tektites: An example of the use of natural analogues in evaluating the long-term reaction of glass with water 190 (1992) 277

McNeil, M.B., see Mohr, D.W. 190 (1992) 329
Miller, N.H., see Sunder, S. 190 (1992) 78
Mohr, D.W. and M.B. McNeil, Modified log-activity diagrams as a tool for modelling corrosion of nuclear waste container materials, with particular reference to copper 190 (1992) 329
Murakami, T., see Isobe, H. 190 (1992) 174

Ollila, K., SIMFUEL dissolution studies in granitic groundwater 190 (1992) 70
Oversby, V.M. and D.L. Phinney, The development of surface alteration layers on SRL-165 nuclear waste glasses 190 (1992) 247

Petit, J.-C., see Trotignon, L. 190 (1992) 228
Phinney, D.L., see Oversby, V.M. 190 (1992) 247

Read, D., see Bennett, D.G. 190 (1992) 315

Sandino, A., see Bruno, J. 190 (1992) 61
Shoesmith, D.W. and S. Sunder, The prediction of nuclear fuel (UO_2) dissolution rates under waste disposal conditions 190 (1992) 20
Shoesmith, D.W., see Hocking, W.H. 190 (1992) 36
Shoesmith, D.W., see Sunder, S. 190 (1992) 78
Smith, K.L., G.R. Lumpkin, M.G. Blackford, R.A. Day and K.P. Hart, The durability of Synroc 190 (1992) 287
Stevenson, C.M., see Mazer, J.J. 190 (1992) 277
Steward, S.A., see Gray, W.J. 190 (1992) 46
Stout, R.B., see Einziger, R.E. 190 (1992) 53
Stroes-Gascoyne, S., Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature 190 (1992) 87
Sunder, S., see Shoesmith, D.W. 190 (1992) 20
Sunder, S., D.W. Shoesmith, H. Christensen and N.H. Miller, Oxidation of UO_2 fuel by the products of gamma radiolysis of water 190 (1992) 78
Suzuki, Y., see Van Iseghem, P. 190 (1992) 269

Tani, B.S., see Wronkiewicz, D.J. 190 (1992) 107
Thomas, L.E., see Einziger, R.E. 190 (1992) 53
Thorogood, G.J., see Vance, E.R. 190 (1992) 295
Thorogood, G.J., see Ball, C.J. 190 (1992) 298
Trotignon, L., J.-C. Petit, G. Della Mea and J.-C. Dran, The compared aqueous corrosion of four simple borosilicate glasses: Influence of Al, Ca and Fe on the formation and nature of secondary phases 190 (1992) 228

Vance, E.R., D.J. Cassidy, C.J. Ball and G.J. Thorogood, High-temperature study of $CaZrTi_2O_7$ 190 (1992) 295
Vance, E.R., see Ball, C.J. 190 (1992) 298
Van Iseghem, P., T. Amaya, Y. Suzuki and H. Yamamoto, The role of Al_2O_3 in the long-term corrosion stability of nuclear waste glasses 190 (1992) 269
Veleckis, E., see Wronkiewicz, D.J. 190 (1992) 107
Vernaz, E., see Delage, F. 190 (1992) 191

Werme, L.O., see Forsyth, R.S. 190 (1992) 3
Wronkiewicz, D.J., J.K. Bates, T.J. Gerding, E. Veleckis and B.S. Tani, Uranium release and secondary phase formation during unsaturated testing of UO_2 at 90°C 190 (1992) 107

Yamamoto, H., see Van Iseghem, P. 190 (1992) 269

Journal of Nuclear Materials 190 (1992) 345–347
North-Holland

journal of nuclear materials

Subject index

Amorphous Materials
Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature, S. Stroes-Gascoyne 190 (1992) 87
A mechanistic model for understanding nuclear waste glass dissolution, F. Delage, D. Ghaleb, J.L. Dussossoy, O. Chevallier and E. Vernaz 190 (1992) 191
Issues affecting the prediction of glass reactivity in an unsaturated environment, J.K. Bates, W.L. Ebert, X. Feng and W.L. Bourcier 190 (1992) 198
The compared aqueous corrosion of four simple borosilicate glasses: Influence of Al, Ca and Fe on the formation and nature of secondary phases, L. Trotignon, J.-C. Petit, G. Della Mea and J.-C. Dran 190 (1992) 228
The development of surface alteration layers on SRL-165 nuclear waste glasses, V.M. Oversby and D.L. Phinney 190 (1992) 247
The role of Al_2O_3 in the long-term corrosion stability of nuclear waste glasses, P. Van Iseghem, T. Amaya, Y. Suzuki and H. Yamamoto 190 (1992) 269
Water diffusion in tektites: An example of the use of natural analogues in evaluating the long-term reaction of glass with water, J.J. Mazer, J.K. Bates, C.R. Bradley and C.M. Stevenson 190 (1992) 277

Ceramics *("Various", i.e. not listed elsewhere by name)*
The durability of Synroc, K.L. Smith, G.R. Lumpkin, M.G. Blackford, R.A. Day and K.P. Hart 190 (1992) 287
High-temperature study of $CaZrTi_2O_7$, E.R. Vance, D.J. Cassidy, C.J. Ball and G.J. Thorogood 190 (1992) 295
Thermal expansion coefficients of zirconolite ($CaZrTi_2O_7$) and perovskite ($CaTiO_3$) from X-ray powder diffraction analysis, C.J. Ball, G.J. Thorogood and E.R. Vance 190 (1992) 298
Analytical electron microscopy of columbite: A niobium–tantalum oxide mineral with zonal uranium distribution, G.R. Lumpkin 190 (1992) 302
A thermodynamic model for blended cements. II: Cement hydrate phases; thermodynamic values and modelling studies, D.G. Bennett, D. Read, M. Atkins and F.P. Glasser 190 (1992) 315

Compatibility and Corrosion
Spent fuel corrosion and dissolution, R.S. Forsyth and L.O. Werme 190 (1992) 3
The prediction of nuclear fuel (UO_2) dissolution rates under waste disposal conditions, D.W. Shoesmith and S. Sunder 190 (1992) 20
Reactivity effects in the oxidative dissolution of UO_2 nuclear fuel, W.H. Hocking, D.W. Shoesmith and J.S. Betteridge 190 (1992) 36
Parametric study of LWR spent fuel dissolution kinetics, W.J. Gray, H.R. Leider and S.A. Steward 190 (1992) 46
Oxidation of spent fuel in air at 175 to 195°C, R.E. Einziger, L.E. Thomas, H.C. Buchanan and R.B. Stout 190 (1992) 53
Static and dynamic SIMFUEL dissolution studies under oxic conditions, J. Bruno, I. Casas and A. Sandino 190 (1992) 61
SIMFUEL dissolution studies in granitic groundwater, K. Ollila 190 (1992) 70
Oxidation of UO_2 fuel by the products of gamma radiolysis of water, S. Sunder, D.W. Shoesmith, H. Christensen and N.H. Miller 190 (1992) 78
Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature, S. Stroes-Gascoyne 190 (1992) 87
Radiation damage-enhanced dissolution of UO_2 in water, Hj. Matzke 190 (1992) 101
Uranium release and secondary phase formation during unsaturated testing of UO_2 at 90°C, D.J. Wronkiewicz, J.K. Bates, T.J. Gerding, E. Veleckis and B.S. Tani 190 (1992) 107
The corrosion of uraninite under oxidizing conditions, R.J. Finch and R.C. Ewing 190 (1992) 133
Dissolution and alteration of uraninite under reducing conditions, J. Janeczek and R.C. Ewing 190 (1992) 157

Alteration of uranium minerals in the Koongarra deposit, Australia: Unweathered zone, H. Isobe, T. Murakami and R.C. Ewing 190 (1992) 174
A mechanistic model for understanding nuclear waste glass dissolution, F. Delage, D. Ghaleb, J.L. Dussossoy, O. Chevallier and E. Vernaz 190 (1992) 191
Issues affecting the prediction of glass reactivity in an unsaturated environment, J.K. Bates, W.L. Ebert, X. Feng and W.L. Bourcier 190 (1992) 198
The compared aqueous corrosion of four simple borosilicate glasses: Influence of Al, Ca and Fe on the formation and nature of secondary phases, L. Trotignon, J.-C. Petit, G. Della Mea and J.-C. Dran 190 (1992) 228
The development of surface alteration layers on SRL-165 nuclear waste glasses, V.M. Oversby and D.L. Phinney 190 (1992) 247
The role of Al_2O_3 in the long-term corrosion stability of nuclear waste glasses, P. Van Iseghem, T. Amaya, Y. Suzuki and H. Yamamoto 190 (1992) 269
The durability of Synroc, K.L. Smith, G.R. Lumpkin, M.G. Blackford, R.A. Day and K.P. Hart 190 (1992) 287
Modified log-activity diagrams as a tool for modelling corrosion of nuclear waste container materials, with particular reference to copper, D.W. Mohr and M.B. McNeil 190 (1992) 329

Copper and Copper Alloys

Modified log-activity diagrams as a tool for modelling corrosion of nuclear waste container materials, with particular reference to copper, D.W. Mohr and M.B. McNeil 190 (1992) 329

Crystallographic Properties

Thermal expansion coefficients of zirconolite ($CaZrTi_2O_7$) and perovskite ($CaTiO_3$) from X-ray powder diffraction analysis, C.J. Ball, G.J. Thorogood and E.R. Vance 190 (1992) 298

Electron Microscopy and Electron Probe Microanalysis

The durability of Synroc, K.L. Smith, G.R. Lumpkin, M.G. Blackford, R.A. Day and K.P. Hart 190 (1992) 287
Analytical electron microscopy of columbite: A niobium–tantalum oxide mineral with zonal uranium distribution, G.R. Lumpkin 190 (1992) 302

Fission Products

Static and dynamic SIMFUEL dissolution studies under oxic conditions, J. Bruno, I. Casas and A. Sandino 190 (1992) 61
Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature, S. Stroes-Gascoyne 190 (1992) 87

Fuels and Fuel Elements

Spent fuel corrosion and dissolution, R.S. Forsyth and L.O. Werme 190 (1992) 3
The prediction of nuclear fuel (UO_2) dissolution rates under waste disposal conditions, D.W. Shoesmith and S. Sunder 190 (1992) 20
Reactivity effects in the oxidative dissolution of UO_2 nuclear fuel, W.H. Hocking, D.W. Shoesmith and J.S. Betteridge 190 (1992) 36
Parametric study of LWR spent fuel dissolution kinetics, W.J. Gray, H.R. Leider and S.A. Steward 190 (1992) 46
Oxidation of spent fuel in air at 175 to 195°C, R.E. Einziger, L.E. Thomas, H.C. Buchanan and R.B. Stout 190 (1992) 53
Static and dynamic SIMFUEL dissolution studies under oxic conditions, J. Bruno, I. Casas and A. Sandino 190 (1992) 61
SIMFUEL dissolution studies in granitic groundwater, K. Ollila 190 (1992) 70
Oxidation of UO_2 fuel by the products of gamma radiolysis of water, S. Sunder, D.W. Shoesmith, H. Christensen and N.H. Miller 190 (1992) 78
Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature, S. Stroes-Gascoyne 190 (1992) 87
Radiation damage-enhanced dissolution of UO_2 in water, Hj. Matzke 190 (1992) 101
Uranium release and secondary phase formation during unsaturated testing of UO_2 at 90°C, D.J. Wronkiewicz, J.K. Bates, T.J. Gerding, E. Veleckis and B.S. Tani 190 (1992) 107
Structural formula of uraninite, J. Janeczek and R.C. Ewing 190 (1992) 128

Irradiation Effects *(excl. Defects, Swelling and Voids)*

Oxidation of UO_2 fuel by the products of gamma radiolysis of water, S. Sunder, D.W. Shoesmith, H. Christensen and N.H. Miller 190 (1992) 78
Radiation damage-enhanced dissolution of UO_2 in water, Hj. Matzke 190 (1992) 101

Kinetics

Parametric study of LWR spent fuel dissolution kinetics, W.J. Gray, H.R. Leider and S.A. Steward 190 (1992) 46

Static and dynamic SIMFUEL dissolution studies under oxic conditions, J. Bruno, I. Casas and A. Sandino 190 (1992) 61

Microstructure *(incl. Textures)*
The durability of Synroc, K.L. Smith, G.R. Lumpkin, M.G. Blackford, R.A. Day and K.P. Hart 190 (1992) 287

Physical Properties *("Various", i.e. not listed elsewhere by name)*
Thermal expansion coefficients of zirconolite ($CaZrTi_2O_7$) and perovskite ($CaTiO_3$) from X-ray powder diffraction analysis, C.J. Ball, G.J. Thorogood and E.R. Vance 190 (1992) 298

Surface Effects and Characterization Techniques
Radiation damage-enhanced dissolution of UO_2 in water, Hj. Matzke 190 (1992) 101

Thermodynamic Properties
A thermodynamic model for blended cements. II: Cement hydrate phases; thermodynamic values and modelling studies, D.G. Bennett, D. Read, M. Atkins and F.P. Glasser 190 (1992) 315

Thermophysical Properties
High-temperature study of $CaZrTi_2O_7$, E.R. Vance, D.J. Cassidy, C.J. Ball and G.J. Thorogood 190 (1992) 295
Thermal expansion coefficients of zirconolite ($CaZrTi_2O_7$) and perovskite ($CaTiO_3$) from X-ray powder diffraction analysis, C.J. Ball, G.J. Thorogood and E.R. Vance 190 (1992) 298

Uranium Ceramics
Spent fuel corrosion and dissolution, R.S. Forsyth and L.O. Werme 190 (1992) 3
The prediction of nuclear fuel (UO_2) dissolution rates under waste disposal conditions, D.W. Shoesmith and S. Sunder 190 (1992) 20
Reactivity effects in the oxidative dissolution of UO_2 nuclear fuel, W.H. Hocking, D.W. Shoesmith and J.S. Betteridge 190 (1992) 36
Parametric study of LWR spent fuel dissolution kinetics, W.J. Gray, H.R. Leider and S.A. Steward 190 (1992) 46
Oxidation of spent fuel in air at 175 to 195°C, R.E. Einziger, L.E. Thomas, H.C. Buchanan and R.B. Stout 190 (1992) 53
SIMFUEL dissolution studies in granitic groundwater, K. Ollila 190 (1992) 70
Oxidation of UO_2 fuel by the products of gamma radiolysis of water, S. Sunder, D.W. Shoesmith, H. Christensen and N.H. Miller 190 (1992) 78
Trends in the short-term release of fission products and actinides to aqueous solution from used CANDU fuels at elevated temperature, S. Stroes-Gascoyne 190 (1992) 87
Radiation damage-enhanced dissolution of UO_2 in water, Hj. Matzke 190 (1992) 101
Uranium release and secondary phase formation during unsaturated testing of UO_2 at 90°C, D.J. Wronkiewicz, J.K. Bates, T.J. Gerding, E. Veleckis and B.S. Tani 190 (1992) 107
Structural formula of uraninite, J. Janeczek and R.C. Ewing 190 (1992) 128
The corrosion of uraninite under oxidizing conditions, R.J. Finch and R.C. Ewing 190 (1992) 133
Dissolution and alteration of uraninite under reducing conditions, J. Janeczek and R.C. Ewing 190 (1992) 157
Alteration of uranium minerals in the Koongarra deposit, Australia: Unweathered zone, H. Isobe, T. Murakami and R.C. Ewing 190 (1992) 174

Vitrification
A mechanistic model for understanding nuclear waste glass dissolution, F. Delage, D. Ghaleb, J.L. Dussossoy, O. Chevallier and E. Vernaz 190 (1992) 191
Issues affecting the prediction of glass reactivity in an unsaturated environment, J.K. Bates, W.L. Ebert, X. Feng and W.L. Bourcier 190 (1992) 198
The compared aqueous corrosion of four simple borosilicate glasses: Influence of Al, Ca and Fe on the formation and nature of secondary phases, L. Trotignon, J.-C. Petit, G. Della Mea and J.-C. Dran 190 (1992) 228
The development of surface alteration layers on SRL-165 nuclear waste glasses, V.M. Oversby and D.L. Phinney 190 (1992) 247
The role of Al_2O_3 in the long-term corrosion stability of nuclear waste glasses, P. Van Iseghem, T. Amaya, Y. Suzuki and H. Yamamoto 190 (1992) 269
Water diffusion in tektites: An example of the use of natural analogues in evaluating the long-term reaction of glass with water, J.J. Mazer, J.K. Bates, C.R. Bradley and C.M. Stevenson 190 (1992) 277